

**Flood Control Project Maintenance  
Levee Inspections  
LMA District Cover Sheet  
Spring 2012 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0007**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\* **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2012 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway		Bank	Unit Miles
Unit No. 01 Feather River		Right	12.07

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/28/2012 - 3/28/2012			
DWR Inspector	Clay Thomas			
Accompanied By	Jason Cooper			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River		Right	12.07	03/28/2012 03/28/2012	Clay Thomas

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma				4
DWR ID: DWR_MA0007_01_s_2012_4										
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma				6
DWR ID: DWR_MA0007_01_s_2012_6										
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma				11
DWR ID: DWR_MA0007_01_s_2012_11										
4	0.01	11.90	Earthen Levee	Vegetation	WSA/W Ma	V1 : Control annual grass and weeds on the levee slopes and easements.		39.311385 ° -121.637491 °	39.439643 ° -121.644494 °	384 Y
DWR ID: DWR_MA0007_01_s_2012_384										
5	0.01	11.90	Earthen Levee	Vegetation	LS A/W Ma	V1 : Control annual grass and weeds on the levee slopes and easements.		39.311386 ° -121.637491 °	39.439644 ° -121.644494 °	383 Y
DWR ID: DWR_MA0007_01_s_2012_383										
6	0.01	1.73	Earthen Levee	Encroachments	LS En	M AD : Agricultural Ditch		39.311297 ° -121.637490 °	39.334365 ° -121.633975 °	42 Y
DWR ID: DWR_MA0007_01_s_2012_42										
7	1.21	1.21	Earthen Levee	Encroachments	WS En	U BU : Buildings		39.327187 ° -121.632395 °	39.327187 ° -121.632395 °	33 Y
DWR ID: DWR_MA0007_01_s_2012_33										
8	1.51	1.51	Supplemental	USACE Erosion Survey	WS Ma	M Inspector Comments: 2011: The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe. [2011 Site ID: FHR_47-5_R]		39.332000 ° -121.633178 °	39.334240 ° -121.633908 °	2 Y
DWR ID: DWR_MA0007_01_s_2012_2										
9	2.83	2.83	Earthen Levee	Slope Stability	LS Ma	C S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.		39.349280 ° -121.630388 °	39.349280 ° -121.630388 °	1
DWR ID: DWR_MA0007_01_s_2012_1										
10	2.88	2.88	Earthen Levee	Encroachments	LS En	M PI : Pipe Inspector Comments: 24 inch pipe L/S toe parallel with levee.		39.349857 ° -121.630632 °	39.349857 ° -121.630632 °	390 Y
DWR ID: DWR_MA0007_01_s_2012_390										
11	2.88	2.88	Earthen Levee	Erosion / Bank Caving	WS Ma	C E2 : Schedule repair of erosion site prior to the next inspection.		39.349859 ° -121.630633 °	39.349859 ° -121.630633 °	391
DWR ID: DWR_MA0007_01_s_2012_391										
12	3.85	5.37	Earthen Levee	Encroachments	LS En	M AD : Agricultural Ditch		39.359942 ° -121.640780 °	39.379262 ° -121.650698 °	39 Y
DWR ID: DWR_MA0007_01_s_2012_39										
13	4.29	4.29	Earthen Levee	Encroachments	LS En	M CR : Crops		39.364815 ° -121.646005 °	39.364815 ° -121.646005 °	389
DWR ID: DWR_MA0007_01_s_2012_389										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway		Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River		Right	12.07	03/28/2012 03/28/2012	Clay Thomas

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
14	5.37	5.37	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	39.379487 ° -121.650604 °	39.379487 ° -121.650604 °	10
DWR ID: DWR_MA0007_01_s_2012_10										
15	5.41	5.41	Earthen Levee	Encroachments	LS	M En	TA : Tank	39.380153 ° -121.650447 °	39.380153 ° -121.650447 °	9
DWR ID: DWR_MA0007_01_s_2012_9										
16	5.42	5.42	Earthen Levee	Encroachments	LS	U En	BU : Buildings	39.379947 ° -121.650525 °	39.379947 ° -121.650525 °	32 Y
DWR ID: DWR_MA0007_01_s_2012_32										
17	6.61	6.61	Earthen Levee	Erosion / Bank Caving	LS	C Ma	E1 : Note and monitor erosion site.	39.386469 ° -121.632648 °	39.386469 ° -121.632648 °	8
DWR ID: DWR_MA0007_01_s_2012_8										
18	6.62	6.62	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	39.386378 ° -121.632572 °	39.386378 ° -121.632572 °	18
DWR ID: DWR_MA0007_01_s_2012_18										
19	8.00	8.00	Earthen Levee	Erosion / Bank Caving	LS	C Ma	E2 : Schedule repair of erosion site prior to the next inspection.	39.401147 ° -121.630885 °	39.401147 ° -121.630885 °	3
DWR ID: DWR_MA0007_01_s_2012_3										
20	8.88	8.88	Earthen Levee	Encroachments	LS	C Ma	PR : Prunings	39.408897 ° -121.637392 °	39.408897 ° -121.637392 °	388
DWR ID: DWR_MA0007_01_s_2012_388										
21	9.05	9.41	Earthen Levee	Slope Stability	LS	M Ma	S1 : Repair slope instability.	39.409363 ° -121.634667 °	39.412797 ° -121.632463 °	7
DWR ID: DWR_MA0007_01_s_2012_7										
22	9.28	9.28	Earthen Levee	Encroachments	LS	C Ma	PR : Prunings	39.412664 ° -121.634709 °	39.412664 ° -121.634709 °	5
DWR ID: DWR_MA0007_01_s_2012_5										
23	9.79	9.79	Earthen Levee	Encroachments	LS	U En	BU : Buildings	39.416384 ° -121.634503 °	39.416384 ° -121.634503 °	45 Y
DWR ID: DWR_MA0007_01_s_2012_45										
24	9.84	9.84	Earthen Levee	Encroachments	LS	M En	EQ : Equipment	39.416921 ° -121.634802 °	39.416921 ° -121.634802 °	12
DWR ID: DWR_MA0007_01_s_2012_12										
25	9.97	9.97	Earthen Levee	Encroachments	LS	C Ma	PR : Prunings	39.418817 ° -121.634895 °	39.418817 ° -121.634895 °	387
DWR ID: DWR_MA0007_01_s_2012_387										
26	10.96	10.96	Earthen Levee	Slope Stability	LS	C Ma	S1 : Repair slope instability.	39.428521 ° -121.642482 °	39.428521 ° -121.642482 °	386
DWR ID: DWR_MA0007_01_s_2012_386										
27	11.63	11.69	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	39.437119 ° -121.645860 °	39.437949 ° -121.646280 °	43 Y
DWR ID: DWR_MA0007_01_s_2012_43										

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2012**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	03/28/2012 03/28/2012	Clay Thomas

Levee Mile Report Line	4
Start Levee Mile	0.01
End Levee Mile	11.90
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo shows the waterside vegetation at levee mile 11.61 looking downstream.

cathom\_s\_20120307\_022.jpg



Levee Mile Report Line	5
Start Levee Mile	0.01
End Levee Mile	11.90
Location	Land Side
Category	Earthen Levee
Item	Vegetation

This photo shows the landside vegetation at levee mile 11.61 looking downstream.

cathom\_s\_20120307\_021.jpg



Levee Mile Report Line	6
Start Levee Mile	0.01
End Levee Mile	1.73
Location	Land Side
Category	Earthen Levee
Item	Encroachments

AG ditch landside slope and toe.

cathom\_s\_20120307\_018.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	03/28/2012 03/28/2012	Clay Thomas

Levee Mile Report Line	7
Start Levee Mile	1.21
End Levee Mile	1.21
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Levee mile 1.21. This is a photo of the building on the waterside slope.

cathom\_s\_20120307\_015.jpg



Levee Mile Report Line	8
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

cathom\_s\_20120307\_011.jpg



Levee Mile Report Line	8
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

cathom\_s\_20120307\_012.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	03/28/2012 03/28/2012	Clay Thomas

Levee Mile Report Line	10
Start Levee Mile	2.88
End Levee Mile	2.88
Location	Land Side
Category	Earthen Levee
Item	Encroachments

This photo shows a pipe approximately 24 inch in diameter at the landside toe of the levee, the pipe runs parallel with the levee, they are repairing the existing pipe.

cathom\_s\_20120307\_023.jpg



Levee Mile Report Line	10
Start Levee Mile	2.88
End Levee Mile	2.88
Location	Land Side
Category	Earthen Levee
Item	Encroachments

This is looking from the crown of the levee at the pipe repair site. Status of a permit is unknown and no verification of the repair was available.

cathom\_s\_20120307\_024.jpg



Levee Mile Report Line	12
Start Levee Mile	3.85
End Levee Mile	5.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Levee mile 5.37. This is a photo of the Ag ditch on the landside slope and toe.

cathom\_s\_20120307\_016.jpg



<p><b>* Location</b></p> <p>LS : Land Side WS : Water Side CR : Crown</p>	<p><b>** Rating</b></p> <p>A : Acceptable M : Minimally Acceptable U : Unacceptable</p> <p>N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor &amp; Maintain</p>	<p><b>+ Issue Type</b></p> <p>Ma : Maintenance Deficiency Ob : Design &amp; System Obsolescence En : Enforcement</p>
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	03/28/2012 03/28/2012	Clay Thomas

Levee Mile Report Line	12
Start Levee Mile	3.85
End Levee Mile	5.37
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Ag ditch landside slope and toe.	
cathom_s_20120307_017.jpg	



Levee Mile Report Line	16
Start Levee Mile	5.42
End Levee Mile	5.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Levee mile 5.42. This photo shows a building on the landside crown, shoulder and slope.	
cathom_s_20120307_014.jpg	



Levee Mile Report Line	23
Start Levee Mile	9.79
End Levee Mile	9.79
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Levee mile 9.79. This photo shows a building at the landside toe.	
cathom_s_20120307_020.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	03/28/2012 03/28/2012	Clay Thomas

Levee Mile Report Line	27
Start Levee Mile	11.63
End Levee Mile	11.69
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landside landscaping levee mile 11.63.	
cathom_s_20120307_019.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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